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PALOMAR AMATEUR RADIO CLUB

August 2023 SCOPE Newsletter

August 2023 General Meeting Peak Performance The World of Summits on the Air

Please join us at 19:00 on Wednesday, August 2nd for pre-meeting social time

19:30 for the start of the meeting, club announcements, followed by our program. We will meet at the usual Harding Community Center 3096 Harding St, Carlsbad, CA 92008. Doors open at 19:00, meeting starts at 19:30. Join us in-person or via zoom link below!

The Zoom link is:

<https://zoom.us/j/98736897490>

Meeting ID: 987 3689 7490

Passcode: 001960

This month we have an excellent in-person presentation about the exciting world of Summits on the Air (SOTA) by an expert in the field - Chris Claiborne, N1CLC. Chris will give a general overview of SOTA and also give details on the equipment used, the steps in activating a SOTA site; working SOTA stations and the awards program

associated with SOTA. SOTA is an ever-expanding ham radio activity offering excellent operating possibilities from beautiful mountains sites. You won't want to miss this one!

Our speaker, Chris Claborne, became a ham in September of 2017, and got his general in October of 2017. His primary radio passion is hiking to the top of a mountain with a radio as part of the Summits On The Air program. He activated his first summit on 10/31/2017 and worked Japan on 5W SSB! He was hooked and quickly rediscovered his desire to hike and combine it with playing radio from mountain tops

Chris has activated over 516 summits for 2,803 activator points, and enjoyed making over 1,571 S2S contacts with other SOTA operators. He's hiked over 1,780+ miles and accumulated a total elevation gain of over 438,352 feet since 10/31/2017. Chris has made 11,143+ simplex contacts from summits and also chase from home. Chris is a Ham blogger (hamninja.com), and does some other blogging as well - Photo (cameraninja.com) , Life (throboflife.com), Tech (cloudrant.com).

You can contact Chris at N1CLC@HamNinja.com

We hope to see you at the Harding Community Center.

This presentation will be in person at the Harding Community Center, 3096 Harding Street, Carlsbad, CA. You may also attend by Zoom on the PARC link: <https://zoom.us/j/98736897490> / Meeting ID: 987 3689 7490/ Passcode: 001960. The doors open at 7:00PM; the presentation starts at 7:30. Coffee and donuts will be served.

Poway Field Day



Amateur radio or ham radio operators in Poway and surrounding cities conducted a Field Day demonstration last weekend at Poway Lake.

American Radio Relay League Field Day is a national radio demonstration and the group's largest event of the year. The exercise allows hams to practice and demonstrate emergency preparedness with radio communications.

The event was visited by local officials, including Ginger Couvrette, a Poway Unified School District trustee, and Peter De Hoff, a Poway City Councilmember. They both toured the site and observed on-air demonstrations of radio communications, said Gayle Binder-Olson with the Poway Amateur Radio Society.

Additionally, Poway Neighborhood Emergency Core had an information table staffed by Terri Sorensen, KK6LBD, who spoke to visitors and shared informational handouts. Other visiting officials were John Hudson, WA6HYQ, and his wife, representing the Governor's Office of Emergency Services, and Rob Freeburn, K6RJF ARRL, assistant section manager for San Diego County and the ARES training coordinator.

Ham Radio is a unique mixture of fun, public service and

experimentation, according to Binder-Olson. Whether it's a local or larger area larger disaster, amateur radio operators are there to be the eyes ears and communicate about any situation, she said.

Those interesting in ham radio are invited to meet other Poway hams at 8 a.m. Saturdays at the Hamburger Factory.

IEEE Microwave Week

By Michelle Thompson, W5NYV

IEEE Microwave Week is the largest gathering of microwave experts in the world. The International Microwave Symposium is the flagship event in a week dedicated to all things microwaves and RF. The week also includes the IEEE MTT-S Radio Frequency Integrated Circuits Symposium (RFIC) and the Automatic Radio Frequency Techniques Group (ARFTG). Microwave Week attracts an international audience of over 8000 academicians, professionals, and amateurs.

Microwave Week was held 16-21 June 2023 in San Diego, CA. Amateur radio had a prominent role, ranging from the highly popular Amateur Radio Social on Tuesday evening to being a central theme of the all-day STEM Student Experience on Thursday. Amateur radio was also evident on the exhibit floor, with at least three booths, Mathworks, Analog Devices, and Amplitech, having amateur radio operators as part of their company representation.

The Amateur Radio Social was 13 June 6:00 pm - 8:00 pm and featured a poster session of amateur radio technical and regulatory work from Open Research Institute (<https://openresearch.institute>), an ISS tracker made from Legos by 12-year-old Zeke Wheeler KJ7NLL (<https://www.youtube.com/@KJ7NLL>), 10 GHz contest radio by Loretta Smalls AJ6HO, 80 GHz and 10 GHz radios from Brian Lee W6BY, and a 10 GHz portable radio from Oliver Barrett KB6BA.

The venue, at The Pointe in the Bayside Hilton Hotel, had indoor and outdoor space, a view of the Pacific Ocean, power, folding tables for gear, and scattered tables for the hot and cold buffet. Drinks were provided from

two bars. As the sun set over the water, a very large crowd gathered to see the radios, eat, drink, socialize, witness successful 10 GHz contacts with stations in Los Angeles, and enjoy a surprise giveaway. A lucky winner took home a 100th anniversary issue of the ARRL Handbook, donated by the IMS Amateur Radio Chair, Michelle Thompson W5NYV. The handbook was given away to the person that had had their license for the least amount of time in an energetic and interactive quiz. ARRL was well-represented with a wide variety of handouts and giveaways generously sent courtesy of Steve Goodgame K5ATA, ARRL Education and Learning Manager. The ARRL brochures highlighting support for educators sparked several conversations and the "HAM" bumper stickers were all claimed in the first 15 minutes. Open Research Institute's "pop-up poster session" by Paul Williamson KB5MU featured open source projects RFBitBanger, Ribbit Radio, Haifuraiya, and ITA/EAR regulatory reform work. ORI handed out microwave-focused FCC frequency allocation posters custom-printed for the social and custom pens. The room rapidly filled to capacity at 6:00 pm and many people remained, visiting and socializing and asking questions about the demonstration stations, until 9:00 pm.

The social was visited by the General Chairs, John Wood and Gayle Collins, who described the event as the most successful amateur radio meetup they had ever seen at IMS. Also appearing at the social were Markus Gardill and Holger Maune, chairs of the MTT-Sat challenge, a worldwide competition for teams of undergraduate and graduate students to design and build radio frequency and microwave hardware for small satellites. Amateur radio is a prominent part for many of the teams that submitted designs for the contest.

A bus-load of students from two San Diego Schools arrived at 9:00 am on 15 June. Working their way through a packed and interactive schedule, the students enjoyed a wide variety of radio and microwave activities. The students had a private Foxhole Radio Receiver build session with Professor David S. Ricketts, from North Carolina State University. This opportunity was available on the exhibit floor to all participants, but Dr. Ricketts provided a calm and un-rushed experience for the students, with instructions customized for a high school audience. Students paired up and made the radio receivers from scratch, and then tested them. All radios, except one, worked perfectly. The one radio that seemed "quite deaf" turned out to have a broken solder joint. The students figured it out with

support, and the entire room celebrated when the problem was identified and quickly solved. Another activity was direction finding sources of radio interference. Casey Lantham from Keysight, Incorporated provided portable spectrum analyzers for the students to take out into the San Diego Convention Center and exhibit floor. Six hidden transmitters were the "RF Targets" for this direction finding activity. The students divided into teams of four with a University student volunteer, who explained the basics of transmitter hunting. One team found four of the six hidden transmitters. All of the teams found at least one transmitter. Michelle Thompson W5NYV and Zeke Wheeler KJ7NLL presented about the value of amateur radio and reinforced the practical radio skills that the students had used during the day. Other STEM Student Experience activities were a personal tour of selected booths on the expansive exhibit floor, a visit to the historical microwave exhibit in Sails Pavilion, and a tour of the IEEE MOVE truck (<https://move.ieeeusa.org/>), where the emergency communications value of amateur radio was emphasized by the volunteers that staff and maintain the disaster communications equipment on the vehicle.

The students left tired, but inspired, with event t-shirts and their bags full of exhibit floor giveaways. Reviews from the students and all of the adults that supported this event were highly positive. STEM Student Experience was chaired by Casey Krawiec and Bill Issi, who are actively recruiting amateur radio support for the next STEM Student Experience in San Diego at a similar professional engineering conference in October 2023.

The Amateur Radio Social and the STEM Student Experience will happen again next year at Microwave Week 2024, which will be in Washington DC.







Elmer Award

This award is presented to
Chris Steinhardt, KD9LF

*in recognition for providing
unselfish and benevolent assistance
to the novice radio operator.
By carrying on the time-honored tradition in
Amateur Radio of
sharing knowledge and providing
guidance and support,
you are ensuring that others may experience
the wonder, excitement and friendship of Amateur Radio.*

This expression of gratitude is presented by
Palomar Amateur Radio Club, W6NWG

12/07/2022

Date

Upcoming Events
One Day Amateur Radio Technician License Class
Saturday, August 26, 2023

Escondido Area

The Amateur Radio Service (Ham Radio) has practical applications from providing emergency communications and supporting civic events to education and recreation.

This is an entry-level (Technician) class for beginners, immediately followed by the license examination. Those who pass the end-of-the-day exam will receive a radio license and call sign from the FCC which entitles them to transmit primarily on VHF and UHF Amateur Radio frequencies (range of about 50 miles over land), with some HF frequency privileges.

Previous knowledge about radio or electricity is not required to take the class or pass the exam. However, we strongly recommend a little study in advance of class. History has shown that a few hours of study and practice tests before attending dramatically improved most people's ability to pass the exam.

Times: From 8:30 AM (sharp) to at most 7:00 PM for both the class and exam. (Plan to arrive about 08:15 AM.)

This includes short hourly breaks and a 45-60 minute lunch break.

Location: Escondido area (address and details provided later to those registered (see below))

Costs: The class is FREE of charge (no fee).

The examination should be free of charge. (Some examiners require a small fee (\$5-10). If needed, details will be given later.)

The FCC is now charging a \$35 license application fee. After you pass the test, they'll send you an email on how to pay.

Eligibility: Anyone properly following emailed registration instructions and Covid mitigation is eligible.

Age limit: None (contact us for teen and pre-teen hints and tips)

Covid Mitigation: Hopefully for this class Covid and flu will continue to be a fading memory. However, if conditions change, we will follow State, County and Host guidance for face coverings.

As always, if you or anyone in your household has flu-like symptoms, please reschedule to a future class so that you do not share germs with thirty classmates.

Registration: Advance Registration is Required.

We can not accept "walk-ins".

Seating is limited and classes have filled two weeks before the class date.

Step 0: Check your calendar (and the family calendar!) - to make sure you are available 8am-7pm.

Step 1: Request registration instructions by emailing sandiegohamclasses@me.com with a subject including at least "26-Aug-2023 Escondido" (we often have more than one class open for registration). You will receive a reply with registration instructions and study materials to review before class. At times, there's a large email backlog and it can take 3-5 days to send your instructions. Please be patient. Fair to mail again after 5 days.

Step 2: Reply in accordance with the instructions, which cover the details. A prompt and complete reply is to your advantage - seats are reserved in the order complete replies are received. Those who do not follow instructions and complete registration properly via email are not eligible to attend the class.

Additional notes;

A. If you are a member of a group that plans to have multiple people attend, please mention that group in your email.

B. We must have a working email address for each registrant and be in direct email contact with them. (We cannot accept "proxy" registrations, where you sign up someone else.) If you want to get a family member or friend started on the registration path, Cc: their email address when you email to request registration instructions and say they're for the family/friend(s) on the cc list. Your family member or friend will be sent the instructions, and will need to reply per instructions.

C. Watch for additional email/reminders before class! There are only a couple....

+ Those registered will receive an email "reminder" about 5-7 days before class with details on location, times, what to bring, etc.

+ Those on the waiting list will receive an update about 7-10 days before class about whether space will be available.

J, on behalf of the instructor team: J af6gm, Bob aa6bp, Rob k6rjf

See the class website <http://sandiegohamclasses.com> for more info.

Annual Club Picnic Saturday, September 16th 2023

Members of Palomar Amateur Radio Club, and HAM Friends in the community! Join Palomar Amateur Radio Club for a fun day of radio, T-Hunting, food, and rag -chewing at San Dieguito Park, in our usual area #4, on Saturday, September 03, 2022.



Hamburgers, Hot dogs, and Veggie burgers will be provided, along with the fixins, plates, and flatware. Members and guests are asked to bring an item from the following list based on their last name:

A-K Side dish or casserole

L-R Salad vegetables or fruit

S-Z Dessert

We will also hold our yearly participation drawing for

some fun prizes, and see some show-and-tell to include your boat-anchor radios and new toys or projects you might be working on, feel free to bring items to show off!

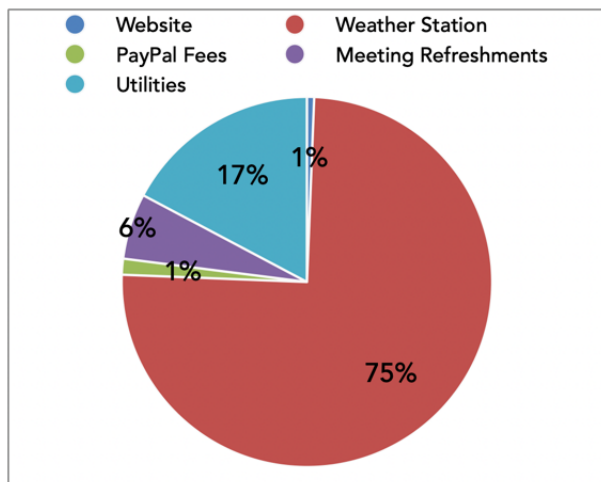
Park opens at 09:30, and some of us will get there to set up around then.

Parking is \$3 per car. Some exceptions apply, see the Park District for more info.

Lunch is around 11:45, T-Hunts will be ongoing.

Area 4 is just inside the Highland Dr entrance, turn Left at the first street past the gate, and immediately Left again down the hill past the maintenance buildings. Picnic area under coverings on your right, playground and restrooms are nearby!

Financial Report



Palomar Amateur Radio Club Statement of Activity by Month 6/1/2023 - 6/30/2023			
	6/30/2023		Total
Revenue			
PayPal Sales	235.00		235.00
Sales	35.00		35.00
Interest	0.00		0.00
Total Revenue	\$ 270.00	\$	270.00
Gross Profit	\$ 270.00	\$	270.00
Expenditures			
Website	5.00		5.00
Weather Station	598.53		598.53
PayPal Fees	11.13		11.13
Meeting Refreshments	45.79		45.79
Utilities	137.59		137.59
Total Expenditures	\$ 798.04	\$	798.04
Net Operating Revenue	-\$ 528.04	-\$	528.04
Net Revenue	-\$ 528.04	-\$	528.04

This is just a reminder that the program we use to

produce the newsletter does not accept PDF Documents. All submissions need to be word format and all images should be JPEG or PNG.

Thanks.

Your Board of Directors

Call Sign.	Name.	Position
K6JPE	Joe	President
KD9LF	Chris	Vice-President
W6TQS	Jim	Secretary
K2VO	Jim	Treasurer
AI6RR	Glen	<i>Membership Chair</i>
AJ6FQ	Ron	Director #1
W6XM	John	Director #2
KM6CXW	Keith	<i>Scope Editor</i>
KF6WTN	Mark	<i>Repeater Chair</i>
NN3V	Charlie	Site Chair

Member Satisfaction Survey

Badge/Nametags

Nametags can be ordered again! Please fill out the form found below, you will be contacted for payment.
<https://www.palomararc.org/parc-badge-order-form>

Swag

Joe K6JPE has been sporting PARC branded swag for a few months now, here's the link to order your own!
https://stores.goldmedalideas.com/palomar_amateur_radio_club

Scope Articles/Content

Please submit articles or content to scope@palomararc.org if you have done something interesting please share with us!
We'd love to see your HAM shacks, mobile rigs, hiking rigs, stories about your hikes or expeditions, anything you think other club members may be interested in reading about.

Donate



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